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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,498	07/24/2003	Masami Amemiya	116-031421	1980
28289 75	90 02/16/2005		EXAM	INER
WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C. 700 KOPPERS BUILDING			SUCHECKI, KRYSTYNA	
436 SEVENTH			ART UNIT	PAPER NUMBER
PITTSBURGH,	, PA 15219		2882	
			DATE MAILED: 02/16/2009	ς.

Please find below and/or attached an Office communication concerning this application or proceeding.

			/ 1
	Application No.	Applicant(s)	(m)
	10/626,498	AMEMIYA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Krystyna Suchecki	2882	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mineral patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a repl reply within the statutory minimum of thirty (ind will apply and will expire SIX (6) MONTH atute, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communi IDONED (35 U.S.C. § 133).	ication.
Status			
3) Since this application is in condition for allo	his action is non-final. wance except for formal matter	• •	its is
closed in accordance with the practice unde	el Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	•
Disposition of Claims			
4) ⊠ Claim(s) <u>1-8</u> is/are pending in the application 4a) Of the above claim(s) is/are without 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-8</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	drawn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Exam 10) ☑ The drawing(s) filed on 13 February 2004 is Applicant may not request that any objection to a Replacement drawing sheet(s) including the cor 11) ☐ The oath or declaration is objected to by the	/are: a)⊠ accepted or b)⊡ ob the drawing(s) be held in abeyance rection is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.1	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in Apportionity documents have been received in Apportionity documents have been received.	olication No eceived in this National Stage	e
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date	Paper No(s)/	nmary (PTO-413) Mail Date rmal Patent Application (PTO-152)	

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 07/26/02. It is noted, however, that applicant has not filed a certified copy of the 2002-218126 application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claim 4 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for an X-ray analyzer for analyzing cadmium or lead contained by a sample having a three filter system, does not reasonably provide enablement for the X-ray analyzer having only one filter. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims. The specification lacks a working example of a one filter X-ray analyzer.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: a detector by which the analysis may take place. Without a detector, the detecting function of Claims 1 and 4 cannot take place.

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Comment on Claims

6. Claims 2 and 3 do not further limit the parent claims with any new structural limitations.

The limitations are functional in nature, only.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claim 4 is rejected under 35 U.S.C. 102(e) as being anticipated by Laurila (US 2004/0240606).
- 9. Regarding Claim 4 Laurila teaches an X-ray analyzer for analyzing cadmium or lead (Paragraph 44, since both lead and cadmium have atomic numbers greater than 30) contained in a sample (Paragraph 44, "mineral matrix") by directing primary X-rays from a target in an X-ray tube at the sample to excite secondary X- rays from the sample and detecting the secondary X-rays, said X-ray analyzer comprising (Abstract): an X-ray filter (52) for absorbing energies lower than said primary X-rays (XH) having energies higher than K[alpha]-line of said cadmium to irradiate the sample only with the high-energy primary X-rays (XH), the X-ray filter being located between the target in the X-ray tube and the sample (Paragraphs 29-30 and 44).

Allowable Subject Matter

10. Claims 1-3 and 5-8 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112 set forth in this Office action.

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The following is a statement of reasons for the indication of allowable subject matter:

Claim 1 contains allowable subject matter for at least the reason that the prior art of record fails to teach or reasonably suggest an x-ray analyzer for making an analysis of a sample by directing primary X-rays from a target in an X-ray tube at the sample to excite secondary X-rays from the sample and detecting the excited secondary X-rays, said analyzer comprising first, second and third X-ray filters located between the target and X-ray tube and the sample as claimed.

12. Claims 2-3 and 5-8 contain allowable subject matter at least by virtue of their dependency.

Conclusion

- 13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patents or applications to Graf (US 2004/0264647), Albagli (US 6,418,193), Lanza (US 4,956,859), DeMone (US 5,033,075) and Wurzer (DE 198 32 973 A) are of interest for teaching or suggesting at least three filters in an X-ray system. However, the references fail to teach or suggest an x-ray analyzer for making an analysis of a sample by directing primary X-rays from a target in an X-ray tube at the sample to excite secondary X-rays from the sample and detecting the excited secondary X-rays with the multiple filters.
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krystyna Suchecki whose telephone number is (571) 272-2495. The examiner can normally be reached on M-F, 9-5.
- 15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Craig E. Church Primary Examiner